

WHAT IS CLAIMED IS:

1. (currently amended) A device for adjusting a camshaft of an internal combustion engine of a motor vehicle, the device comprising:

a stator;

a rotor configured to be fixedly connected to a camshaft and rotatable relative to the stator;

at least one drive wheel fixedly connected to the stator;

wherein the at least one drive wheel is centered by the camshaft;

wherein the camshaft has a collar and the collar is a monolithic part of the camshaft, wherein the collar is provided with a radial outer circumferential surface and the at least one drive wheel is arranged on the radial outer circumferential surface of the collar;

wherein, when looking onto a free end of the camshaft, the rotor is positioned in front of the collar.

2. (canceled)

3. (canceled)

4. (canceled)

5. (canceled)

6. (original) The device according to claim 1, wherein the rotor has two end faces and the two end faces are planar.

7. (previously presented) A device for adjusting a camshaft of an internal combustion engine of a motor vehicle, the device comprising:

a stator;

a rotor configured to be fixedly connected to a camshaft and rotatable relative to the stator;

at least one drive wheel fixedly connected to the stator;

wherein the at least one drive wheel is centered by the camshaft;

wherein the stator has a peripheral area provided with at least one centering element interacting with at least one counter element provided on the drive wheel for aligning the drive wheel in a rotational direction relative to the stator.

8. (original) The device according to claim 7, wherein the centering element

is a recess in a peripheral wall of the stator.

9. (original) The device according to claim 7, wherein the counter element is a shoulder provided on the drive wheel and engaging the centering element.

10. (original) The device according to claim 7, wherein the stator has at least one alignment element interacting with at least one alignment element of a mounting tool for radially aligning the drive wheel relative to the rotor.

11. (original) The device according to claim 10, wherein the at least one alignment element of the stator is an axially extending groove in a peripheral wall of the stator.